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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/003,061	11/02/2001	Coen Theodorus Hubertus Fransiscus Liedenbaum	NL 000590	4835

7590

04/09/2003

Corporate Patent Counsel
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EXAMINER

WU, XIAO MIN

ART UNIT	PAPER NUMBER
2674	3

DATE MAILED: 04/09/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/003,061

Applicant(s)

LIEDENBAUM, COEN
THEODORUS HUBERTUS FRA

Examiner

XIAO M. WU

Art Unit

2674

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 November 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____. 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-7 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Martel (US Patent No. 3,344,280).

As to claim 1, Martel discloses a display device (Fig. 1) having pixel elements (e.g. each point on the electroluminescent layers 14 and 16) comprising a luminescent material (14, 16) for emitting light when excited by excitation means (24), each one of the pixel elements being provided with modulating means (12, 18, 22) for modulating an emission of light by the luminescent material (col. 2, lines 1-8; col. 4, lines 27-48).

As to claim 2, Martel discloses the excitation means (24) comprises means (e.g. ultraviolet light) for generating electromagnetic radiation (col. 4, lines 9-13).

As to claim 3, Martel discloses that the means for generating electromagnetic radiation are comprised in the display device. For example, the ultra-violet light source 24 is part of the elements of the display device as shown in Fig. 1.

As to claim 4, Martel discloses the excitation means comprises means for generating an electric field (col. 1, lines 68-71).

As to claim 5, Martel discloses the modulation means (22) comprises means for generating an electric field.

As to claim 6, Martel discloses the pixel elements further comprises electrodes (12, 18) which are provided to the luminescent material (14, 16), the electric field being generated by applying a voltage to the electrodes.

As to claim 7, Martel discloses the electrodes (12, 18) are transparent electrodes.

As to claim 10, Martel further disclose means for controlling the excitation means (e.g. controlling the light source, see col. 6, lines 38-45), and means for controlling the modulation means in response to a display signal applied to the display apparatus (e.g. the power source 22 can be turned on and off and the excited image on the electroluminescent layer will reappear, see col. 4, lines 62-73).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Martel (US Patent No. 3,344,280).

As to claims 8 and 9, it is noted that Martel does not specifically disclose what is the thickness of a layer of luminescent material and what is the electric field strength applied to the electrodes. However, the thickness of the layer of luminescent material and the electric field strength are considered as an obvious design choice since the impedance of the luminescent material are varied based on the thickness and the electric field. Therefore, a proper thickness

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and electric field can be selected based on what kind of the compound of the luminescent material is used.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The US Patents 2,928,993, 3,902,185, 3,947,842, 3,988,536, 4,033,679, 4,470,666, 4,772,885, 5,337,183 are cited to teach an electroluminescent display device.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Xiao Wu whose telephone number is (703) 305-4721.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (703) 305-4709.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314

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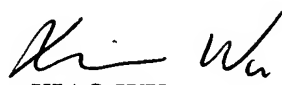
Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington.

VA., Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377

xw

April 4, 2003


XIAO WU
PRIMARY EXAMINER
ART UNIT 2674